

Nithish Chouti

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EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
BTech. Computer Science and Engineering	Indian Institute of Information Technology (IIIT), Dharwad, Karnataka	CGPA: 8.97	Expected May 2025
Senior Secondary (12th)	Delhi Public School, Nacharam, Telangana	Percentage: 96.4%	April 2021
Secondary (10th)	Delhi Public School, Nacharam, Telangana	Percentage: 96%	April 2019

EXPERIENCE

Summer Research Intern May 2024 – July 2024
Indian Institute of Technology, Hyderabad Telangana

- Contributed to the development of semantic segmentation models for the project "Vision Capabilities for a Bi-Pedaled Robot" under Prof. Sumohana S. Channappayya.
- Conducted in-depth research on segmentation architectures, ultimately selecting the DeepLabv3+ model based on project requirements and performance metrics.
- Analyzed and compared various MobileNet backbones to identify the optimal model based on accuracy and inference time, enhancing overall segmentation efficiency.

Research Intern December 2023 – February 2024
Indian Institute of Information Technology, Sri City Andhra Pradesh

- Contributed to research in autonomous navigation, focusing on obstacle avoidance under the guidance of faculty mentor Dr.Prabhu Prasad and Dr. Pavan Kumar.
- Collaborated as a team to set up ROS noetic environment and Turtlebot3 waffle pi model in real life as well as on Gazebo simulation.
- After detailed research and analysis, implemented A* algorithm as a global planning algorithm and DWA local path planning algorithm which efficiently avoided obstacles.

TECHNICAL PROJECTS

Question Generation using Generative AI for Reading Comprehension September 2024 - November 2024

- Collaborated with a team of four to develop an AI-powered system using the Llama 3.1 model to generate varied question types (open-ended, MCQs, fill-in-the-blank) for reading comprehension assessments.
- Integrated NLP techniques like Sense2Vec and Named Entity Recognition (NER) to improve question relevance and accuracy.
- Enhanced model performance through iterative evaluation, achieving precision of 73%, recall of 87%, and incorporating human feedback.

Cardio Vascular Disease Prediction using Machine Learning Algorithms February 2024 – May 2024

- Processed an IEEE dataset on Heart disease parameters and predicted the possibility of diagnosing the disease.
- Used different algorithms like SVM, Neural Networks, Random Forest and XG Boost and achieved the best accuracy of 89.5% through Random Forest Classifier.
- Designed a Streamlit app for the Prediction of CVD and dashboard to show the statistics observed in the dataset.

PUBLICATIONS

1. N. Chouti, S. Kusale, S. Mishra, S. Rajora, P. Prasad, B. B. Sinha, and M. K. V., "Enhancing Multi-Criteria Recommendation Systems with Hot Deck Imputation and User-Specific Similarity Measures," in *Proc. 2nd Int. Conf. on Artificial Intelligence: Theory and Applications (AITA)*, 2024.
2. N. Chouti, S. Kusale, S. Mishra, S. Rajora, P. Prasad, B. B. Sinha, and M. K. V., "Deep Learning-Based Multi-Criteria Recommender System: Leveraging Autoencoders for Improved Personalization," in *Proc. 1st Int. Conf. on Computing, Sciences & Communications (ICCSC)*, 2024.

3. R. Kherudkar, S. Tiwari, U. Vedantham, N. Chouti, P. Prasad B. M., P. Kumar B. N., and M. K. Vanahalli, "Implementation and Comparison of Path Planning Algorithms for Autonomous Navigation," in *Proc. 2nd IEEE Conf. on Engineering Informatics (ICEI)*, 2024.
4. U. Vedantham, N. Chouti, K. Naik, and S. C. K., "Heart Health Insights: Analysing Data and Visualising Predictive Factors for Cardiovascular Disease," in *Proc. 2nd IEEE Conf. on Engineering Informatics (ICEI)*, 2024.

COMMUNITY & LEADERSHIP

Non Technical Lead

Google Developer Student Club

August 2023 – August 2024

Dharwad, Karnataka

- Fostered a collaborative and inclusive environment, encouraging team members to contribute their unique skills and perspectives.
- Collaborated with the technical leads to ensure a balanced range of events that were conducted by the club.
- Served as the backbone of the club, orchestrating successful events with a team of eleven skilled individuals.
- Organized events attended by over 150 students, showcasing effective leadership and organizational prowess.

Vice President

Entrepreneurship Cell (E-Cell)

August 2022 – December 2023

Dharwad, Karnataka

- Collaborated with the team to develop and implement the strategic vision and goals of the E-Cell towards entrepreneurship.
- Encouraged and facilitated student participation in entrepreneurship-related activities.
- Successfully organized The Shark Tank 2.O, annual pitching event of the club and mentored support for the plan and execution of their ideas along with the team.

TECHNICAL & SOFT SKILLS

Languages: Python, C, Java, HTML, CSS, JavaScript.

Developer Tools: PyCharm, Visual Studio Code, Google Colab, Spyder, MySQL, GitHub.

Soft Skills: Communication, Management, Leadership, Teamwork, Planning and Coordinating, Problem solving, Adaptability, Presentation skills.

CERTIFICATIONS

Unsupervised Learning, Recommenders, Reinforcement Learning (Coursera)

February 2024

Advance Learning Algorithms (Coursera)

January 2024

Accenture North America Data Analytics and Visualization on Forage

December 2023

J.P. Morgan Software Engineering Virtual Experience on Forage

November 2023

JPMorgan Chase & Co. Agile Job Simulation on Forage

November 2023

Supervised Machine Learning: Regression and Classification (Coursera)

October 2023

ADDITIONAL ACTIVITIES/Achievements

- Participated as an active member of the National Cadet Corps (NCC), fostering community engagement, teamwork, and leadership through various camps and activities, including yoga and plantation drives.
- Secured 2 Bronze Medals in Relay and Triple Jump at the Inter IIIT Sports Meet (2022, 2023), showcasing athletic excellence.
- Won two bronze medals in the Freedom Run 2.0 and 3.0 and achieved Runner-Up position in the Dharwad District Basketball Competition, promoting sportsmanship and physical fitness.
- Successfully hosted, managed and anchored events like Habba Cultural Fest, Intra Sports Meet, etc. in the institute.